

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/542,704
Source: PCT
Date Processed by STIC: 07/28/2005

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PCT

RAW SEQUENCE LISTING

DATE: 07/28/2005

PATENT APPLICATION: US/10/542,704

TIME: 15:38:36

Input Set : A:\sequence listing ascii.txt

Output Set: N:\CRF4\07282005\J542704.raw

3 <110> APPLICANT: Gardella, Thomas J.
 4 Kronenberg, Henry M.
 5 Potts, John T.

7 <120> TITLE OF INVENTION: Conformationally Constrained Parathyroid Hormone (PTH)

Analogs

8 With Lactam Bridges
 10 <130> FILE REFERENCE: 0609.514PC00
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/542,704
 C--> 12 <141> CURRENT FILING DATE: 2005-07-20
 12 <160> NUMBER OF SEQ ID NOS: 37
 14 <170> SOFTWARE: PatentIn version 3.2
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 14
 18 <212> TYPE: PRT
 19 <213> ORGANISM: Artificial Sequence
 21 <220> FEATURE:
 22 <223> OTHER INFORMATION: Mutated hPTH
 24 <220> FEATURE:
 25 <221> NAME/KEY: MISC_FEATURE
 26 <222> LOCATION: (1)..(1)
 27 <223> OTHER INFORMATION: Xaa can represent Gly, Ser, Ala or alpha-aminoisobutyric acid
 29 <220> FEATURE:
 30 <221> NAME/KEY: MISC_FEATURE
 31 <222> LOCATION: (3)..(3)
 32 <223> OTHER INFORMATION: Xaa can represent Ala, Ser, alpha-aminoisobutyric acid
 34 <220> FEATURE:
 35 <221> NAME/KEY: MISC_FEATURE
 36 <222> LOCATION: (6)..(6)
 37 <223> OTHER INFORMATION: Xaa can represent Asp, Glu or Lys
 39 <220> FEATURE:
 40 <221> NAME/KEY: MISC_FEATURE
 41 <222> LOCATION: (10)..(10)
 42 <223> OTHER INFORMATION: Xaa can represent Asp, Glu or Lys
 44 <220> FEATURE:
 45 <221> NAME/KEY: MISC_FEATURE
 46 <222> LOCATION: (11)..(11)
 47 <223> OTHER INFORMATION: Xaa can represent Arg, Leu or Homoarginine
 49 <220> FEATURE:
 50 <221> NAME/KEY: MISC_FEATURE
 51 <222> LOCATION: (12)..(12)
 52 <223> OTHER INFORMATION: Xaa can represent Ala or Gly
 54 <220> FEATURE:
 55 <221> NAME/KEY: MISC_FEATURE
 56 <222> LOCATION: (14)..(14)

(Pg 6)

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Input Set : A:\sequence listing ascii.txt
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57 <223> OTHER INFORMATION: Xaa can represent Trp or His
 59 <220> FEATURE:
 60 <221> NAME/KEY: MOD_RES
 61 <222> LOCATION: (14)..(14)
 62 <223> OTHER INFORMATION: AMIDATION
 64 <400> SEQUENCE: 1
 W--> 66 Xaa Val Xaa Glu Ile Xaa Leu Met His Xaa Xaa Xaa Lys Xaa
 67 1 5 10
 70 <210> SEQ ID NO: 2
 71 <211> LENGTH: 12
 72 <212> TYPE: PRT
 73 <213> ORGANISM: Artificial Sequence
 75 <220> FEATURE:
 76 <223> OTHER INFORMATION: Mutated hPTH
 79 <220> FEATURE:
 80 <221> NAME/KEY: MISC_FEATURE
 81 <222> LOCATION: (6)..(6)
 82 <223> OTHER INFORMATION: Xaa can represent Asp, Glu or Lys
 84 <220> FEATURE:
 85 <221> NAME/KEY: MISC_FEATURE
 86 <222> LOCATION: (9)..(9)
 87 <223> OTHER INFORMATION: Xaa represents homoarginine
 89 <220> FEATURE:
 90 <221> NAME/KEY: MOD_RES
 91 <222> LOCATION: (12)..(12)
 92 <223> OTHER INFORMATION: AMIDATION
 94 <400> SEQUENCE: 2
 W--> 96 Ala Val Ala Glu Ile Xaa Leu Met Xaa Ala Lys Trp
 97 1 5 10
 100 <210> SEQ ID NO: 3
 101 <211> LENGTH: 14
 102 <212> TYPE: PRT
 103 <213> ORGANISM: Artificial Sequence
 105 <220> FEATURE:
 106 <223> OTHER INFORMATION: [(Glu-6, Lys-10) lac.] PTH(1-14)
 109 <220> FEATURE:
 110 <221> NAME/KEY: MISC_FEATURE
 111 <222> LOCATION: (1)..(14)
 112 <223> OTHER INFORMATION: Sequence is cyclized via a 6-10 lactam bridge
 114 <220> FEATURE:
 115 <221> NAME/KEY: MISC_FEATURE
 116 <222> LOCATION: (11)..(11)
 117 <223> OTHER INFORMATION: Xaa represents homoarginine
 119 <220> FEATURE:
 120 <221> NAME/KEY: MOD_RES
 121 <222> LOCATION: (14)..(14)
 122 <223> OTHER INFORMATION: AMIDATION
 124 <400> SEQUENCE: 3
 W--> 126 Ala Val Ala Glu Ile Glu Leu Met His Lys Xaa Ala Lys Trp

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Input Set : A:\sequence listing ascii.txt
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127 1 5 10
 130 <210> SEQ ID NO: 4
 131 <211> LENGTH: 14
 132 <212> TYPE: PRT
 133 <213> ORGANISM: Artificial Sequence
 135 <220> FEATURE:
 136 <223> OTHER INFORMATION: [(Lys-6, Lys-10) lac.] PTH(1-14)
 139 <220> FEATURE:
 140 <221> NAME/KEY: MISC_FEATURE
 141 <222> LOCATION: (1)..(14)
 142 <223> OTHER INFORMATION: Sequence is cyclized via 6-10 lactam bridge
 144 <220> FEATURE:
 145 <221> NAME/KEY: MOD_RES
 146 <222> LOCATION: (14)..(14)
 147 <223> OTHER INFORMATION: AMIDATION
 149 <400> SEQUENCE: 4
 W--> 151 Ala Val Ala Glu Ile Lys Leu Met His Lys Xaa Ala Lys Trp
 152 1 5 10
 155 <210> SEQ ID NO: 5
 156 <211> LENGTH: 34
 157 <212> TYPE: PRT
 158 <213> ORGANISM: Rattus sp.
 161 <220> FEATURE:
 162 <221> NAME/KEY: MOD_RES
 163 <222> LOCATION: (34)..(34)
 164 <223> OTHER INFORMATION: AMIDATION
 166 <400> SEQUENCE: 5
 168 Ala Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Ala
 169 1 5 10 15
 172 Ser Val Glu Arg Met Gln Trp Leu Arg Lys Lys Leu Gln Asp Val His
 173 20 25 30
 176 Asn Phe
 180 <210> SEQ ID NO: 6
 181 <211> LENGTH: 34
 182 <212> TYPE: PRT
 183 <213> ORGANISM: Homo sapiens
 186 <220> FEATURE:
 187 <221> NAME/KEY: MOD_RES
 188 <222> LOCATION: (34)..(34)
 189 <223> OTHER INFORMATION: AMIDATION
 191 <400> SEQUENCE: 6
 193 Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 194 1 5 10 15
 197 Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 198 20 25 30
 201 Asn Phe
 205 <210> SEQ ID NO: 7
 206 <211> LENGTH: 34
 207 <212> TYPE: PRT

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Input Set : A:\sequence listing ascii.txt
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208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Mutated hPTH
214 <220> FEATURE:
215 <221> NAME/KEY: MISC_FEATURE
216 <222> LOCATION: (6)..(6)
217 <223> OTHER INFORMATION: Xaa can represent Ala, Glu or Gln
219 <220> FEATURE:
220 <221> NAME/KEY: MISC_FEATURE
221 <222> LOCATION: (10)..(10)
222 <223> OTHER INFORMATION: Xaa can represent Ala, Glu or Gln
224 <220> FEATURE:
225 <221> NAME/KEY: MOD_RES
226 <222> LOCATION: (34)..(34)
227 <223> OTHER INFORMATION: AMIDATION
229 <400> SEQUENCE: 7
W--> 231 Ser Val Ser Glu Ile Xaa Leu Met His Xaa Leu Gly Lys His Leu Asn
232 1 5 10 15
235 Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
236 20 25 30
239 Asn Tyr
243 <210> SEQ ID NO: 8
244 <211> LENGTH: 11
245 <212> TYPE: PRT
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Mutated hPTH(1-11)
252 <220> FEATURE:
253 <221> NAME/KEY: MOD_RES
254 <222> LOCATION: (11)..(11)
255 <223> OTHER INFORMATION: AMIDATION
257 <400> SEQUENCE: 8
259 Ala Val Ala Glu Ile Gln Leu Met His Gln Arg
260 1 5 10
263 <210> SEQ ID NO: 9
264 <211> LENGTH: 14
265 <212> TYPE: PRT
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: [Aib-1,3]PTH(1-14)
272 <220> FEATURE:
273 <221> NAME/KEY: MISC_FEATURE
274 <222> LOCATION: (1)..(1)
275 <223> OTHER INFORMATION: Xaa represents alpha-aminoisobutyric acid
277 <220> FEATURE:
278 <221> NAME/KEY: MISC_FEATURE
279 <222> LOCATION: (3)..(3)
280 <223> OTHER INFORMATION: Xaa represents alpha-aminoisobutyric acid
282 <220> FEATURE:

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Input Set : A:\sequence listing ascii.txt
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283 <221> NAME/KEY: MISC_FEATURE
284 <222> LOCATION: (11)..(11)
285 <223> OTHER INFORMATION: Xaa represents homoarginine
287 <220> FEATURE:
288 <221> NAME/KEY: MOD_RES
289 <222> LOCATION: (14)..(14)
290 <223> OTHER INFORMATION: AMIDATION
292 <400> SEQUENCE: 9
W--> 294 Xaa Val Xaa Glu Ile Gln Leu Met His Gln Xaa Ala Lys Trp
295 1 5 10
298 <210> SEQ ID NO: 10
299 <211> LENGTH: 34
300 <212> TYPE: PRT
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: ([Tyr-34]hPTH(1-34)amide)
307 <220> FEATURE:
308 <221> NAME/KEY: MOD_RES
309 <222> LOCATION: (34)..(34)
310 <223> OTHER INFORMATION: AMIDATION
312 <400> SEQUENCE: 10
314 Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
315 1 5 10 15
318 Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
319 20 25 30
322 Asn Tyr
326 <210> SEQ ID NO: 11
327 <211> LENGTH: 14
328 <212> TYPE: PRT
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: [Ala-1,3,12, Gln-10, Har-11, Trp-14]PTH(1-14)amide
335 <220> FEATURE:
336 <221> NAME/KEY: MISC_FEATURE
337 <222> LOCATION: (11)..(11)
338 <223> OTHER INFORMATION: Xaa represents homoarginine
340 <220> FEATURE:
341 <221> NAME/KEY: MOD_RES
342 <222> LOCATION: (14)..(14)
343 <223> OTHER INFORMATION: AMIDATION
345 <400> SEQUENCE: 11
W--> 347 Ala Val Ala Glu Ile Gln Leu Met His Gln Xaa Ala Lys Trp
348 1 5 10
351 <210> SEQ ID NO: 12
352 <211> LENGTH: 11
353 <212> TYPE: PRT
354 <213> ORGANISM: Artificial Sequence
356 <220> FEATURE:
357 <223> OTHER INFORMATION: [Ala-1,3, Gln-10, Har-11]PTH(1-11)amide

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,3,6,10,11,12,14
Seq#:2; Xaa Pos. 6,9
Seq#:3; Xaa Pos. 11
Seq#:4; Xaa Pos. 11
Seq#:7; Xaa Pos. 6,10
Seq#:9; Xaa Pos. 1,3,11
Seq#:11; Xaa Pos. 11
Seq#:12; Xaa Pos. 11
Seq#:14; Xaa Pos. 11
Seq#:15; Xaa Pos. 1,3,11
Seq#:16; Xaa Pos. 11
Seq#:17; Xaa Pos. 1,3,11
Seq#:21; Xaa Pos. 1,3,11
Seq#:22; Xaa Pos. 1,3,11
Seq#:23; Xaa Pos. 1,3,11
Seq#:24; Xaa Pos. 11
Seq#:25; Xaa Pos. 11
Seq#:26; Xaa Pos. 11
Seq#:30; Xaa Pos. 11
Seq#:31; Xaa Pos. 1,3,6,10,11,12,14
Seq#:32; Xaa Pos. 1,3,6,10,11,12,14
Seq#:33; Xaa Pos. 1,3,6,10,11,12
Seq#:34; Xaa Pos. 1,3,6,10,11,12
Seq#:35; Xaa Pos. 1,3,6,10,11

VERIFICATION SUMMARY DATE: 07/28/2005
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Input Set : A:\sequence listing ascii.txt
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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:735 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:1126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:1171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0